

1 Q. **Re: Volume II, Tab 12 – Install Asset Health Monitoring System – Upper Salmon**
2 **Generating Plant**

3 *An automated data collection system would have alerted plant*
4 *engineering to this issue by providing trended vibration signals.*

5 *This event was due to an ongoing issue with corrosion fretting on*
6 *this unit. (p. 6-7)*

7 Did the inspections and maintenance reveal the issue of corrosion fretting prior to
8 the forced outage in 2014?

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11 A. Unacceptable vibration in equipment may result in corrosion fretting. Ongoing
12 corrosion fretting, if severe enough, will result in equipment failure. Previous
13 inspections in 2002, 2006 and 2010 provided an opportunity to identify corrosion
14 fretting; however, signs of that activity were not identified. Hydro concluded that
15 corrosion fretting started after the 2010 inspection and was ongoing for an
16 undeterminable time before the unit failure in 2014. By installing this monitoring
17 system, Hydro will be able to identify issues such as vibration levels and trends and
18 will improve its ability to provide timely intervention.